

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of intersection control beacons, street lighting and signing. Signals will be limited to mainline U.S. 15. The intersection of U.S. 15 and Willow Road is located in Frederick County.

II. INTERSECTION OPERATION

A two circuit flasher with a dimmer switch housed in a pole mounted flasher cabinet will be installed at this intersection. Beacons 1,2,3, and 4 will have flashing yellow indications.

III. SPECIAL NOTES

It is the responsibility of the contractor to confirm geometrics prior to placing signal equipment.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9037	1 EA	CABINET "G" TYPE POLE MOUNT
9068	1 EA	2 CIRCUIT FLASHER
9571	20 SF	SHEET ALUMINUM MAST ARM MOUNTED SIGN (2) D3-2 16" X 90"

THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 7 ARE AS FOLLOWS:

Mr. Robert Fisher
District Engineer
Phone: (301) 624-8102

Mr. John Concannon
Assistant District Engineer-Traffic
Phone: (301) 624-8141

Mr. Dave Coyne
Assistant District Engineer-Maintenance
Phone: (301) 624-8105

Mr. Jim Buckalew
Utility Engineer
Phone: (301) 624-8115

THE FOLLOWING CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

Mr. Richard L. Daff
Chief Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Chief, Signal Operations
410-787-7650

Mr. Eugene Bailey
Chief, Sign Operations
410-787-7676

The Power Company Representative is:
Ms. Sherry Strother
Allegheny Power
P.O. Box 1392
Fairmont, WV 26554
(304) 367-3370

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

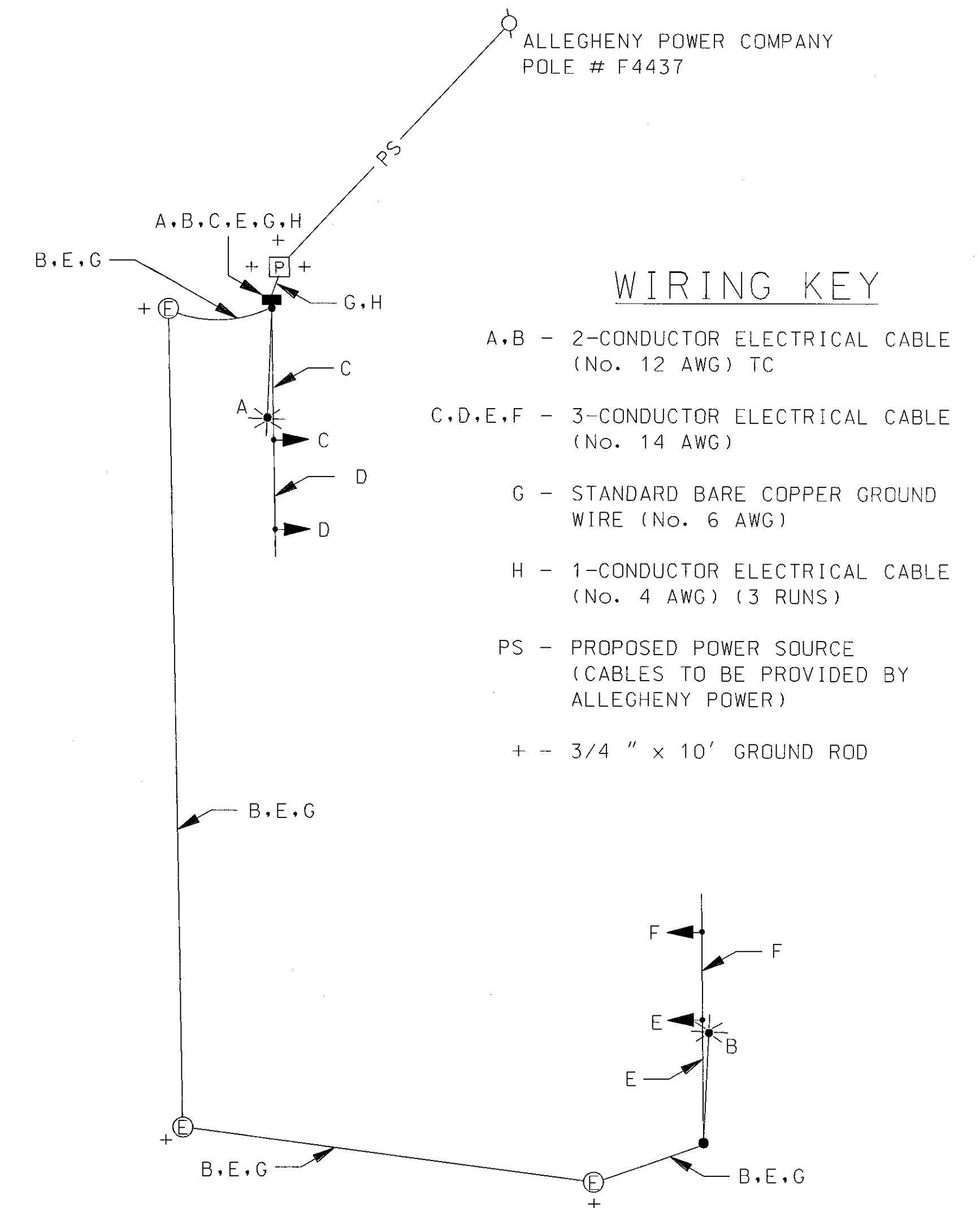
ITEM NO.	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
5002	8 EA	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING SYMBOLS
5008	8 EA	FURNISH AND INSTALL HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROWS (SHARKS TEETH)
8108	2 EA	FURNISH AND INSTALL 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8001	6 CY	FURNISH AND INSTALL CONCRETE FOUNDATION
8014	1 EA	REMOVE AND DISPOSE MATERIAL & EQUIPMENT PER ASSIGN
8022	400 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8027	90 LF	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8028	90 LF	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8031	35 LF	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8037	1 EA	METERED SERVICE PEDESTAL
8039	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG)
8048	20 SF	INSTALL OVERHEAD SIGN
8057	2 EA	FURNISH AND INSTALL STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
8064	2 EA	FURNISH AND INSTALL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8069	6 EA	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8071	4 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8078	550 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR (NO. 14 AWG)
8081	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 AWG) (TC)
8089	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO: THE STATE HIGHWAY ADMINISTRATION 7491 CONNELLEY DRIVE HANOVER, MARYLAND 21076

ITEM NO.	QUANTITY	DESCRIPTION
		NONE

WIRING DIAGRAM



PHASE CHART

	1	2	3	4
	(Y)	(Y)	(Y)	(Y)
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y

RK
RUMMEL, KLEPPER
& KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION U.S. 15 AND WILLOW ROAD FREDERICK, MARYLAND			
DRAWN BY: GWT	F.A.P. NO.	TS NO.	SHEET NO. 2 OF 2
CHECKED BY: BLB	S.H.A. NO.	4341	
SCALE: NONE	COUNTY: FREDERICK	T.J.M.S. NO.	
DATE: AUGUST 15, 2004	LOG MILE: 10001517.07	G213	